## PATENT ABSTRACTS OF JAPAN

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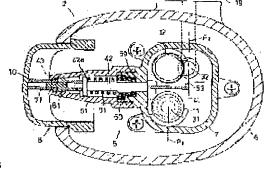
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## 54) MULTI-WAY VALVE

## 57) Abstract:

PROBLEM TO BE SOLVED: To convert the flow passage easily and ecurely, by providing an abutting member to displace a sphere forcibly, and to open and close a discharge port; a pressing member to operate he abutting member: a reciprocating movable member to transmit the displacement to the abutting member; and a temporary stopping nechanism to stop the reciprocating movable member it plural specific ositions.

SOLUTION: In the condition a push-button 10 is not pushed, a reciprocating cam 71 and a rotary cam 81 are inserted to the groove of a guide tube 61 of a temporary stopping mechanism 43, the rotary cam 31 is energized by a spring 91 through a reciprocating shaft 42, an abutting member 41 is at a stopping position P1, the discharge port 31 of a valve case 7 is blocked by a ball 11, and a discharge port 32 is opened. When the push-button 10 is pushed, the reciprocating cam 71 is slided in the guide tube 61 in the direction of the valve case 7, the rotary cam 81 is also slided, the reciprocating shaft 42 and the abutting member 41 move to the stopping position P2 side, and the discharge port 31 is opened. When the pressing operation force of the pushbutton 10 is released, the abutting member 41 stops at the stopping



position P2, the discharge port 31 is opened, and the discharge port 32 is blocked. When the push-button 10 is pushed again, all members are restored to the original condition. Consequently, the flow passage can be converted securely in an easy operation.

## LEGAL STATUS

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